PYSTOL™

MISTING CONCENTRATE

- PYSTOL™ Misting Concentrate is for use in automatic misting systems in animal housing and outdoor residential areas
- Makes up to 55 gallons of solution. Dilution ratio with water 1:21
- Kills & Repels House flies, Stable flies, Horse flies, Black flies, Deer flies, Fruit flies, Horn flies, Mosquitoes, Gnats, Bott flies, Biting and Non-Biting Midges, Face flies and fleas

Introducing PYSTOL™ Misting Concentrate, a combination of Pyrethrins and Permethrin with Piperonyl Butoxide for indoor and or outdoor areas as listed.

PYSTOL'S™ premium formulation ensures effective control of flying insects in animal housing and outdoor residential areas. PYSTOL'S™ high quality blend of actives provides both quick knockdown and long lasting protection against a broad range of nuisance insects.

PYSTOL™ Misting Concentrate is designed to be utilized with handheld sprayers or in automatic misting systems and delivered as a fine mist or fog. PYSTOL™ may be used to treat outdoor areas such as patios, pool areas, beach houses, around homes, and lawn areas.

800-242-5562 (Phone)
281-892-2501 (Fax)
www.controlsolutionsinc.com

Martin's®

PYSTOL™

Misting Concentrate

- **Fast Knockdown and Control**
- **Kills & Repels House flies, Stable flies, Horse flies, Black flies, Deer flies, Fruit flies, Horn flies, Mosquitoes, Gnats, Bott flies, Biting and Non-Biting Midges, Face flies and Fleas**

ACTIVE INGREDIENT:

Pyrethrins:	0.55%
* Piperonyl Butoxide, Technical:	5.50%
** Permethrin: (3-phenoxyphenyl)methyl(+1-)cis/trans3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate*	1.10%
INERT INGREDIENTS:	92.85%
TOTAL	100.0%

*Equivalent to 4.4% (butylcarbityl)(6-propylpiperonyl) ether and 1.1% related compounds.

** Cis/trans ratio: Max 65% (+1-) trans and min. 35% (+1-) cis.

EPA Reg. No. 53883-243 **EPA Est. No. 53883-TX-002**

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.

If swallowed	• Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes	• Hold eye open and rinse slowly and gently with water for 15 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Drift or runoff may adversely affect fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DILUTION CHART

Dilute before using following the recommendations in the chart below. Mix thoroughly before application. Repeat treatments only as necessary to maintain control.

Total Spray Volume	Amount of PYSTOL Misting Concentrate Insecticide	Amount of Water
1 gallon	5.8 fl. oz.	7 pints + 10.2 fl. oz.
2 gallons	11.6 fl.oz.	1 gallon + 7 pints + 10.2 fl. oz.
5 gallons	1 pint + 13.1 fl. oz.	4 gallons + 3 quarts + 2.9 fl. oz.
10 gallons	3 pints + 10.2 fl. oz.	9 gallons + 2 quarts + 5.8 fl. oz.
30 gallons	1 gallon + 1 quart + 14.5 fl. oz.	28 gallons + 5 pints + 1.5 fl. oz.
55 gallons	2 gallons + 2 quarts	52 gallons + 2 quarts

INDOOR SPACE SPRAYS

Use in horse barns, dog kennels, and zoo animal quarters to kill and repel House flies, Stable flies, Horse flies, Black Flies, Deer flies, Fruit flies, Horn flies, Mosquitoes, Gnats, Bott flies, Biting and Non-biting Midges, Face flies and fleas.

Use Restrictions:
- Do not allow people to remain in treatment areas (horse barns, dog kennels & zoo animal quarters) while treatment is in progress.
- Before allowing personnel to re-enter, the treated area must be thoroughly ventilated.
- Do not use in commercial food/feed handling establishments, restaurants, or other areas where food is commercially prepared or processed.

Apply as a space spray at a rate of 1 fluid ounce diluted product per 1000 cubic feet of area using an automatic spray system. Refer to the system user manual for specific instructions. Spray nozzles should be adjusted to deliver a fine mist or fog to the entire area to be treated. Do not program automatic spraying systems to release pesticide where food or feed is directly exposed.

NOTE: Do not apply this product to horses intended for slaughter or human consumption. Do not apply this product in horse barns (stables) where horses intended for slaughter or human consumption will be maintained.

OUTDOOR SPRAYS

Use as an outdoor spray for the temporary reduction of House flies, Stable flies, Horse flies, Black Flies, Deer flies, Fruit flies, Horn flies, Mosquitoes, Gnats, Bott flies, Biting and Non-biting Midges, Face flies and fleas on and around homes, patios, tennis courts, pool areas, beach houses, and lawn areas.

Use Restrictions:
- Not registered for use in Residential Automatic Mosquito Misting Systems in the State of New York.

NOTE: Installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed.

Application in Outdoor Residential Misting Systems:
Apply PYSTOL Misting Concentrate as an area spray at a rate not to exceed 1.25 fluid ounces of diluted product per minute with each nozzle covering 100 square feet (approximately 1000 cubic feet) using an automatic spray system. Refer to the system user manual for specific instructions. Adjust spray nozzles to deliver a fine mist or fog.

For use only in systems that have been calibrated to apply no more than the maximum applications rate of 0.25 grams of Permethrin per 1,000 cubic feet per day (equal to 0.13 gallons of PYSTOL Misting Concentrate dilution per 1,000 cubic feet per day).

If the system has a reservoir tank for the end dilution, the reservoir tank must be locked. The PYSTOL Misting Concentrate label along with a dilution statement ("The container holds 1 part PYSTOL Misting Concentrate to 21 parts water") must be securely attached to the system reservoir tank in a protected area or plastic sleeve. If used in a direct injection system the pesticide container must be locked. Securely attach the PYSTOL Misting Concentrate label to the pesticide container in a weather protected area or plastic sleeve.

Program automatic spray systems so as not to activate and/or release when people, pets, and food or feed are present. For control of drift and runoff, a rain sensor and a wind sensor should be installed on the system. Direct nozzles to spray towards the treatment area. Do not spray towards cooking and eating areas, swimming pools, or water bodies. Activate and deactivate manually the automatic spray system 30 minutes to an hour before outdoor activity is planned, but not when people, pets, or food are in the treatment area. Do not use in an evaporative cooling system.

Application With Handheld Sprayers:
For residual treatment of vegetation or other surfaces apply the diluted product at a rate of 6 to 12 fl. oz. per 1,000 sq. ft. of area. Use only equipment that produces coarse, non-ULV sprays. Do not apply with handheld or truck mounted aerosol ULV sprayers and thermal fogging devices. Not for wide area mosquito adulticide use.

STORAGE & DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.
Storage: Keep in a cool, dry area preferably locked and away from children and pets. Do not store below 32°F (0°C). In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.
Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container Disposal:
For Containers equal to or less than 5 Gallons: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE
Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.
If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.
CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Control Solutions, Inc.'s control it is impossible for Control Solutions, Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.
DISCLAIMER OF WARRANTIES: CONTROL SOLUTIONS, INC. MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages, resulting from the use or handling of this product.
LIMITATIONS OF LIABILITY: TO THE EXTENT PERMITED BY LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT CONTROL SOLUTIONS, INC.'S ELECTION, THE REPLACEMENT OF PRODUCT.

Manufactured By:
Control Solutions, Inc
5903 Genoa-Red Bluff • Pasadena, TX 77507

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MATERIAL SAFETY DATA SHEET

Section 1 – Product Identification

PRODUCT NAME: PYSTOL™ Misting Concentrate

MANUFACTURER'S NAME: CONTROL SOLUTIONS, INC
5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

EPA REGISTRATION NO. 53883-243

EPA EST. NO. 53883-TX-002

Section 2 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL/ACGIH TLV
Pyrethrins	8003-34-7	0.55%	OSHA: 5 mg/m^3
Permethrin	52645-53-1	1.10%	None established
Piperonyl Butoxide	51-03-06	5.50%	None established
Inert	-	92.85%	None established

Section 3 – Hazard Identification

Symptoms of Toxicity: Pyrethroids are neurotoxins and may produce symptoms including staggering gait, muscle tremors and convulsions.

Flammability: Not flammable.

Reactivity: Stable under normal conditions.

Carcinogenicity: No evidence of carcinogenicity in long term animal studies.

Section 4 – First Aid

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Move person to fresh air. If person is not breathing, give artificial respiration. Call a poison control center for further treatment advice.

Ingestion: Call poison control center immediately for treatment advice. Do not induce vomiting unless directed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Dermal Contact: Take off contaminated clothing. Rinse skin immediately with soap and water for 15-20 minutes. Call a poison control center for treatment advice if irritation persists.

Notes/Physician's Information: Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Section 5 – Fire and Explosion Hazards

Flash Point: Will not flash.

Upper Flammability Limit: N/A

Extinguishing Media: Foam, dry chemical, or CO_2

Lower Flammability Limit: N/A

Special Firefighting Procedures: Use SCBA with full-face piece and protective clothing.

Unusual Fire Hazards: Possible toxic smoke, vapors, fallout and runoff water can result from fires.

Reactivity/Stability: Toxic and irritating gasses may form when burned or heated. Hazardous polymerization will not occur.

Section 6 – Spill/Release Procedures

Absorbent: Universal absorbent pads and booms, vermiculite, or clay granules.

Containment: Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.

Waste Disposal: Dispose of contaminated material in municipal land fill or through licensed TSDF. Not a hazardous waste under RCRA, 40 CFR 261.

Reporting: Report all spills and uncontrolled releases >21 gallons to proper local, state, and federal agencies.

Emergency Contact #: Chemtrec: 1-800-424-9300

Section 7 – Storage and Handling Instructions

Storage Conditions: Do not store near foodstuffs or feed. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents and alkaline material.

Special Handling Considerations: Exercise caution to prevent damage or leakage from the container. Workers should follow good hygiene practices to avoid accidental ingestion. Keep away from children.

Container Disposal ≤ 5 gallons: Do not reuse empty containers. Clean promptly after emptying. Triple rinse as follows: 1) Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 2) Fill the container ¼ full with water a recap. 3) Shake for 10 seconds. 4) Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. 5) Drain for 10 seconds after the flow begins to drip. 6) Repeat this procedure two more times. Offer containers for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.

Section 8 – Protective Equipment/Engineering Controls

Eye Protection: ANSI approved safety goggles or glasses with side shields are recommended.

Respiratory Protection: When necessary, use OSHA approved air purifying respirator with combination OVAG and P100 cartridge.

Dermal Protection: Gloves, long sleeves, pants and shoes.

Engineering Controls: Use only in adequately ventilated areas.

Section 9 – Physical Data

Odor: Slight characteristic

Physical State: Liquid

Color (G-W): 11, off-white

Bulk Density: See specific gravity

Vapor Pressure: N/A

Viscosity: N/A

Melting Point: N/A

Flash Point: Will not flash

Specific Gravity: 1.019 g/ml

pH: N/A

Water Solubility: Disperses in water

Refractive Index: N/A

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Section 10 – Toxicity

EPA Toxicity Category:	III, "Caution" label required	**Oral LD_{50}:**	500-5000 mg/kg
Skin Contact:	Moderately irritating	**Dermal LD_{50}:**	2-20 g/kg
Eye Contact:	Mildly irritating	**Inhalation LC_{50}:**	2-20 mg/l (4 hour)
NFPA Classification:	Fire - 0 Health - 1		
	Reactivity - 0 Special - none		
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

Section 11 – Ecological Data

Aquatic:	LC_{50} (96h) for rainbow trout: 2.5 ug/L (permethrin) LC_{50} (96h) for Bluegill: 1.8 ug/L (permethrin)
Avian:	LD_{50} Bobwhite quail- >10,000 mg/kg (permethrin)
Bioaccumulation:	Unlikely to bioaccumulate due to acute toxicity.
Summary:	This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of wastes.

Section 12 – Transportation

DOT:	<21 gallons: Not regulated. >21 gallons: RQ, UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains pyrethrins), Class 9, PG III
IATA:	>21 gallons: RQ, UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains pyrethrins), Class 9, PG III
IMDG:	UN3082, Environmentally hazardous substance, liquid n.o.s (1.1% permethrin), Class 9, PG III, marine pollutant Note: RQ mark required if >21 gallons

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Not regulated under section 302.
Section 304/EHS RQ: (release notification)	Not regulated under section 304.
CERCLA RQ: (release notification)	Pyrethrins: RQ = 1 pound. CAS #: 8003-34-7. RQ as a mixture = 181.82 lbs or 21 gallons.
Section 311/Tier II: (MSDS submission)	Acute health hazard.
Section 313/TRI Chemicals:	1.10% permethrin, CAS #: 52645-53-1 5.50% piperonyl butoxide, CAS #: 51-03-06
RCRA Haz-Waste Code(s):	Not an RCRA hazardous waste.
CAA TQ: (air emissions)	Not regulated under the CAA.

Section 14 – Other

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

The information provided on this Material Safety Data Sheet is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Control Solutions, Inc. The data on this sheet relates only to the specific material designated herein. Control Solutions, Inc. assumes no legal responsibility for the accuracy or completeness of this data, nor for use or reliance upon this data.

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